

IN THE SUBSTITUTE SPECIFICATION:

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-- BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic view, in cross-section, of an embodiment of a cell observation chamber in accordance with the present invention;

Fig. 2 is a planar view of the substrate 7 of the apparatus of Fig. 1;

Fig. 3 is a partial schematic view, in cross-section, illustrating the flow path relative to a barrier 6 of substrate 7;

Fig. 4 is a bottom planar view of the barrier 6 shown in Fig. 7;

Fig. 5 is a partial cross-sectional view of the substrate 7 showing the barrier 6 in cross-section;

Fig. 6 is a perspective view of an apparatus for detecting cell chemotaxis utilizing the cell observation chamber of Fig. 1;

Fig. 7 is a perspective view of apparatus combining a cell observation chamber and support body therefor in accordance with the present invention;

Fig. 8 is a top planar view of the combination of Fig. 7;

Fig. 9 is a front view of the combination of Fig. 7;

Fig. 10 is a side view of the combination of Fig. 7;

Fig. 11 is a view in cross-section parallel to the front of the combination of Fig. 7;

Fig. 12 is a view in cross-section parallel to the side of the combination of Fig. 7;

Fig. 13 is a perspective view, similar to Fig. 7, but with the guide block body 34 removed;

Fig. 14 is an exploded perspective view of the apparatus shown in Fig. 13;

Fig. 15 is a schematic electrical diagram illustrating an embodiment of the temperature control of the cell observation chamber in accordance with the present invention; and

Fig. 16A an exploded perspective view of a prior art cell observation chamber and Fig. 16B is schematic cross-section of the prior art cell observation chamber of Fig. 16A. --